



## Early Journal Content on JSTOR, Free to Anyone in the World

This article is one of nearly 500,000 scholarly works digitized and made freely available to everyone in the world by JSTOR.

Known as the Early Journal Content, this set of works include research articles, news, letters, and other writings published in more than 200 of the oldest leading academic journals. The works date from the mid-seventeenth to the early twentieth centuries.

We encourage people to read and share the Early Journal Content openly and to tell others that this resource exists. People may post this content online or redistribute in any way for non-commercial purposes.

Read more about Early Journal Content at <http://about.jstor.org/participate-jstor/individuals/early-journal-content>.

JSTOR is a digital library of academic journals, books, and primary source objects. JSTOR helps people discover, use, and build upon a wide range of content through a powerful research and teaching platform, and preserves this content for future generations. JSTOR is part of ITHAKA, a not-for-profit organization that also includes Ithaka S+R and Portico. For more information about JSTOR, please contact [support@jstor.org](mailto:support@jstor.org).

# SCIENCE.

EDITORIAL COMMITTEE: S. NEWCOMB, Mathematics; R. S. WOODWARD, Mechanics; E. C. PICKERING, Astronomy; T. C. MENDENHALL, Physics; R. H. THURSTON, Engineering; IRA REMSEN, Chemistry; JOSEPH LE CONTE, Geology; W. M. DAVIS, Physiography; O. C. MARSH, Paleontology; W. K. BROOKS, Invertebrate Zoölogy; C. HART MERRIAM, Vertebrate Zoölogy; N. L. BRITTON, Botany; HENRY F. OSBORN, General Biology; H. P. BOWDITCH, Physiology; J. S. BILLINGS, Hygiene; J. McKEEN CATTELL, Psychology; DANIEL G. BRINTON, J. W. POWELL, Anthropology.

FRIDAY, MARCH 29, 1895.

## CONTENTS:

<i>The Mesozoic Flora of Portugal compared with that of the United States:</i> LESTER F. WARD .....	337
<i>Explanation of Acquired Immunity from Infectious Diseases:</i> GEORGE M. STERNBERG .....	346
<i>Remarking the Mexican Boundary:</i> O. ....	349
<i>The Nature of Science and its Relation to Philosophy:</i> E. W. SCRIPTURE .....	350
<i>'Science':</i> .....	352
<i>Correspondence:—</i> .....	353
<i>A Catalogue of Scientific Literature:</i> W J McGEE. <i>Teaching Botany:</i> W. J. BEAL.	
<i>Scientific Literature:—</i> .....	356
<i>Lobachévsky:</i> ALEXANDER ZIWET. <i>Bastin's Botany:</i> S. E. JELLIFFE. <i>Wiley's Agricultural Analysis:</i> CHARLES PLATT. <i>Coutie on the Earth's Atmosphere:</i> EDWARD HART.	
<i>Notes and News:—</i> .....	361
<i>Biology; Appropriations for the U. S. Geological Survey; General.</i>	
<i>Scientific Journals</i> .....	364
<i>New Books</i> .....	364

MSS. intended for publication and books, etc., intended for review should be sent to the responsible editor, Prof. J. McKeen Cattell, Garrison on Hudson, N. Y.  
Subscriptions and advertisements should be sent to SCIENCE, 41 N. Queen St., Lancaster, Pa., or 41 East 49th St., New York.

## THE MESOZOIC FLORA OF PORTUGAL COMPARED WITH THAT OF THE UNITED STATES.

### HISTORICAL NOTICE.

THE earliest studies in the Mesozoic deposits of Portugal seem to have been made by Mr. Daniel Sharpe, who read a paper before the Geological Society of London on April 11, 1832, describing certain beds in the vicinity of Lisbon and Oporto; in the former of which were included strata re-

ferred by him to the Oolite. On the 9th and 23d of January, 1839, he presented a second paper describing more fully the secondary formations in the vicinity of Lisbon.\* On November 21, 1849, Mr. Sharpe read still a third paper before the same society† of a much more extended nature and devoted entirely to the secondary formation. In this paper is a full list of all the fossils known down to that date carefully determined by Mr. John Morris. Included in these was a single fossil plant regarded by Mr. Morris as a variety of a species of the Yorkshire Oolite called by Phillips *Cycadites gramineus*. It was found at Cape Mondego, and from this circumstance was given the varietal name *Mundæ*. As Mr. Morris referred Phillips' plant to the genus *Zamites*, the Portuguese plant was made to bear the name *Zamites gramineus* var. *Mundæ*.

In 1858 Sr. Charles Ribeiro published a series of elaborate papers on the Geology of Portugal,‡ treating chiefly of the Carboniferous; but in two of these§ he considers the Lias and Oolite, mentioning the plant above referred to from Cape Mondego and

\* *Geol. Soc. Lond., Proc.*, Vol. I., p. 395; Vol. II., p. 31; *Trans.*, 2d Ser., Vol. VI., p. 115ff.

† *Quart. Journ. Geol. Soc. Lond.*, Vol. VI., pp. 135-201.

‡ *Mem. Acad. Real. Sci. de Lisboa*, New Ser., Vol. II.

§ *Mina de Carvão de Pedra do Cabo Mondego, do districto de Leiria*; op. cit., Pt. II., Third and Fourth Memoirs (these memoirs are separately paged).